

## **I. AMENDMENTS**

### **Amendments to the Claims:**

The following listing of claims replaces all prior versions and listings of claims in the application:

1-70. (Canceled)

71. (Previously Presented) Isolated heparanase (endo- $\beta$ -D-glucuronidase) protein, said heparanase protein having heparanase catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said protein includes a polypeptide at least 70% homologous to SEQ ID NO: 10.

72. (Currently Amended) A pharmaceutical composition comprising ~~consisting essentially of~~ the isolated heparanase protein of claim 71, and a pharmaceutically acceptable carrier.

73-91. (Canceled)

92. (Previously Presented) The protein of claim 71, wherein said heparanase protein includes a polypeptide at least 80% homologous to SEQ ID NO: 10.

93. (Previously Presented) The protein of claim 71, wherein said heparanase protein includes a polypeptide at least 90% homologous to SEQ ID NO: 10.

94. (Previously Presented) The protein of claim 71, wherein said heparanase protein includes a polypeptide at least 95% homologous to SEQ ID NO: 10.

95. (Previously Presented) The protein of claim 71, wherein said heparanase protein includes SEQ ID NO: 10.

96. (Previously presented) The pharmaceutical composition of claim 72, consisting of said isolated heparanase protein and said pharmaceutically acceptable carrier.

97. (Currently Amended) A preparation comprising protein molecules, ~~wherein all protein molecules in said preparation together define a protein component~~, said preparation including protein component consisting essentially of heparanase (endo- $\beta$ -D-glucuronidase) protein, said heparanase protein having heparanase catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said heparanase protein includes a polypeptide at least 70% homologous to SEQ ID NO: 10, and wherein said preparation can elicit anti-heparanase antibodies.

98. (Previously Presented) The preparation of claim 97, wherein said heparanase protein includes a polypeptide at least 80% homologous to SEQ ID NO: 10.

99. (Previously Presented) The preparation of claim 97, wherein said heparanase protein includes a polypeptide at least 90% homologous to SEQ ID NO: 10.

100. (Previously Presented) The preparation of claim 97, wherein said heparanase protein includes a polypeptide at least 95% homologous to SEQ ID NO: 10.

101. (Previously Presented) The preparation of claim 97, wherein said heparanase protein includes SEQ ID NO: 10.

102 -106 (Canceled)

107. (Currently Amended) ~~Recombinant—heparanase~~ Heparanase (endo- $\beta$ -D-glucuronidase) protein, said heparanase protein having heparanase catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said heparanase protein includes a polypeptide at least 70% homologous to SEQ ID NO: 10 and is purified close to homogeneity.

108. (Previously Presented) The protein of claim 107, wherein said heparanase protein includes a polypeptide at least 80% homologous to SEQ ID NO: 10.

109. (Previously Presented) The protein of claim 107, wherein said heparanase protein includes a polypeptide at least 90% homologous to SEQ ID NO: 10.

110. (Previously Presented) The protein of claim 107, wherein said heparanase protein includes a polypeptide at least 95% homologous to SEQ ID NO: 10.

111. (Previously Presented) The protein of claim 107, wherein said heparanase protein includes SEQ ID NO: 10.

112-113. (Canceled)

114. (New) Purified heparanase (endo- $\beta$ -D-glucuronidase) protein, said heparanase protein having heparanase catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said heparanase protein includes a polypeptide at least 70% homologous to SEQ ID NO: 10.

115. (New) The protein of claim 114, wherein said heparanase protein includes a polypeptide at least 80% homologous to SEQ ID NO: 10.

116. (New) The protein of claim 114, wherein said heparanase protein includes a polypeptide at least 90% homologous to SEQ ID NO: 10.

117. (New) The protein of claim 114, wherein said heparanase protein includes a polypeptide at least 95% homologous to SEQ ID NO: 10.

118. (New) The protein of claim 114, wherein said heparanase protein includes SEQ ID NO: 10.